CANADIAN JOURNAL OF MICROBIOLOGY, VOLUME 12

AUTHOR INDEX

Under each name are listed, in chronological order of publication, all articles in which an author has participated.

Abrahamsson, K.
The effect of temperature on toxin formation and toxin stability of *Clostridium botulinum* type E in different environments. K. Abrahamsson, B. Gullmar, and N. Molin, 385.
Adams, J. C.
Longevity of selected exogenous microorganisms in the rumen. J. C. Adams, P. A. Hartman, and N. L. Jacobson, 363.
Adams, J. N.
Studies on the fragmentation of *Nocardia erythropolis* in liquid medium. J. N. Adams, 433.
Alexander, M.
Nitrification by growing and replacement cultures of *Aspergillus*. K. G. Doxtader and M. Alexander, 807.
Allan, R. K.
Prophage induction by N-methyl-N′-nitro-N-nitrosoguanidine. R. K. Allan and D. R. McCalla, 202.
Allen, J.
The assimilation of $H^{14}CN$ by a variety of fungi. J. Allen and G. A. Strobel, 414.
Allen, O. N.
Medium supplementation with L- and D-amino acids relative to growth and efficiency of *Rhizobium meliloti*. B. W. Strijdom and O. N. Allen, 275.
Allwood, M. C.
Some factors influencing the revival of heat-damaged *Staphylococcus aureus*. M. C. Allwood and A. D. Russell, 1295.
Altenbern, R. A.
Formation of hemolysin by strains of *Pseudomonas aeruginosa*. R. A. Altenbern, 231.
Antia, N. J.
The antibacterial activity of marine planktonic algae. D. C. B. Duff, D. L. Bruce, and N. J. Antia, 877.
Argamaso, R. V.
The effect of hyperbaric oxygen upon aerobic bacteria. II. Studies of toxin production by *Staphylococcus aureus*. R. V. Argamaso, G. M. Wiseman, and I. Penn, 863.
Azuma, Y.
Variation of the osmotic fragility of spheroplasts with growth temperature. Y. Azuma and L. D. Witter, 422.
Bailey, W. R.
Further studies on the antigens of *Escherichia coli* 026:B6. J. E. McDade and W. R. Bailey, 249.
Baker, G. E.
Inadvertent distribution of fungi. G. E. Baker, 109.
Baldwin, J. N.
Co-transduction of the genetic determinants of synthesis of penicillinase and methionine in *Staphylococcus aureus*. S. A. Harmon, J. N. Baldwin, W.-c. Tien, and D. B. Critz, 973.
Bandoni, R. J.
Extracellular heteropolysaccharides from *Cryptococcus* and *Tremella*: a possible taxonomic relationship. M. E. Slodki, L. J. Wickerham, and R. J. Bandoni, 489.
Bannister, E. R.
Concerning the mechanism by which hadacidin potentiates the damaging action of ionizing irradiation on bacteria. R. F. Pittillo, E. R. Bannister, and E. P. Johnson, 17.
Microbiological studies on the mechanism of action of sparsomycin. E. R. Bannister, D. E. Hunt, and R. F. Pittillo, 595.
Barrens, M.
The exclusion of intracellular lambda from *Escherichia coli* Y10 (λ) by $T4r^+$ coliphage. R. C. French and M. Barrens, 1197.
Basaraba, J.
Effects of vegetable tannins on glucose oxidation by various microorganisms. J. Basaraba, 787.

Bekker, J. F.
Nematocidal activity to *Pratylenchus penetrans* by culture fluids from actinomycetes and bacteria. J. T. Walker, C. H. Specht, and J. F. Bekker, 347.
Berczi, I.
Comparative studies on the toxicity of *Escherichia coli* lipopolysaccharide endotoxin in various animal species. I. Berczi, L. Bertók, and T. Bereznai, 1070.
Bereznai, T.
Comparative studies on the toxicity of *Escherichia coli* lipopolysaccharide endotoxin in various animal species. I. Berczi, L. Bertók, and T. Bereznai, 1070.
Berk, R. S.
Nutritional requirements for autoplaque production in AP$^+$ strains of *Pseudomonas aeruginosa*. R. S. Berk, 371.
Berliner, M. D.
Control of rhythmic growth of a *Neurospora* "clock" mutant by sugars. M. D. Berliner and P. W. Neurath, 1068.
Bertók, L.
Comparative studies on the toxicity of *Escherichia coli* lipopolysaccharide endotoxin in various animal species. I. Berczi, L. Bertók, and T. Bereznai, 1070.
Bhat, J. V.
Mode of attack on phenol by a *Micrococcus* sp. isolated from coir rets. N. P. Jayasankar and J. V. Bhat, 1031.
Birch-Andersen, A.
An electron microscope study of thin sections of *Haemophilus vaginalis* (Gardner and Dukes) and some possibly related species. A. Reyn, A. Birch-Andersen and S. P. Lapage, 1125.
Bird, F. T.
The development of a cytoplasmic polyhedrosis virus in the spruce budworm, *Choristoneura fumiferana* (Clemens). F. T. Bird, 337.
Blouse, L.
Properties of four *Herellea* phages. L. Blouse and R. Twarog, 1023.
Brewer, D.
The biological properties of 3,6-epidithiadiketopiperazines. Inhibition of growth of *Bacillus subtilis* by gliotoxins, sporidesmins, and chetomin. D. Brewer, D. E. Hannah, and A. Taylor, 1187.
Browder, H. P.
In vitro effect of lysostaphin, neomycin, and bacitracin on *Staphylococcus aureus*. W. A. Zygmunt, H. P. Browder, and P. A. Tavormina, 204.
Growth inhibition of unusual strains of *Staphylococcus aureus* by lysostaphin and other antistaphylococcal antibiotics. W. A. Zygmunt, H. P. Browder, and P. A. Tavormina, 341.
Bruce, D. L.
The antibacterial activity of marine planktonic algae. D. C. B. Duff, D. L. Bruce, and N. J. Antia, 877.
Buckman, J. D.
The antimicrobial activities of carbonyl and thiocarbamoyl disulfides. J. D. Buckman, B. S. Johnson, and L. Field, 1263.
Burton, A. N.
Western equine encephalitis in Saskatchewan birds and mammals 1962–1963. A. N. Burton, J. R. McLintock, J. Spalatin, and J. G. Rempel, 133.
Bystricky, V.
The occurrence of microbial forms of unusual morphology in European and Asian soils. S. W. Orenski, V. Bystricky, and K. Maramorosch, 1291.
Campbell, J. J. R.
The accumulation of α-ketoglutarate by suspensions of *Pseudomonas aeruginosa*. M. von Tigerstrom and J. J. R. Campbell, 1005.
The tricarboxylic acid cycle, the glyoxylate cycle, and the enzymes of glucose oxidation in *Pseudomonas aeruginosa*. M. von Tigerstrom and J. J. R. Campbell, 1015.
Campbell, J. N.
Selenite reduction by *Salmonella heidelberg*. R. G. L. McCready, J. N. Campbell, and J. I. Payne, 703.
Canale-Parola, E.
Temperature-dependent pigment production by *Bacillus cereus* var. *alesti*. R. L. Uffen and E. Canale-Parola, 590,
Cann, D. C.
The comparative morphology of the spores of *Clostridium botulinum* type E and the spores of the "OS mutant". W. Hodgkiss, Z. J. Ordal, and D. C. Cann, 1283.

Carlucci, A. F.
Bioassay of seawater. I. A ^{14}C uptake method for the determination of concentrations of vitamin B_{12} in seawater. A. F. Carlucci and S. B. Silbernagel, 175.
Bioassay of seawater. II. Methods for the determination of concentrations of dissolved vitamin B_1 in seawater. A. F. Carlucci and S. B. Silbernagel, 1079.
Carroll, B. J.
Spore germination and vegetative growth of *Clostridium botulinum* type E in synthetic media. B. Q. Ward and B. J. Carroll, 1145.
Carson, K. J.
Lysozyme sensitivity of the cell wall of *Pseudomonas aeruginosa*: further evidence for the role of the non-peptidoglycan components in cell wall rigidity. K. J. Carson and R. G. Eagon, 105.
Chacko, C. I.
The effect of isopropyl *N*-(3-chlorophenyl) carbamate on filamentous fungi and *Saccharomyces cerevisiae*. C. I. Chacko, 1292.
Chadwick, P.
Direct testing of antibiotic sensitivity by a microcolony method. P. Chadwick and D. E. Mahony, 683.
A rapid determination of bacterial antibiotic sensitivity in mixed culture. D. E. Mahony and P. Chadwick, 699.
Chain, M. M. T.
Morphological development of Chikungunya virus. M. M. T. Chain, F. W. Doane, and D. M. McLean, 895.
Chambers, A. K.
Regulation of proteinase formation in a species of *Micrococcus*. I. J. McDonald and A. K. Chambers, 1175.
Chan, E. C. S.
Growth of *Arthrobacter citreus* at an elevated temperature. I. Promotion by associated microorganisms. E. C. S. Chan and M. B. Johnson, 581.
Growth of *Arthrobacter citreus* at an elevated temperature. II. Promotion by metallic ions. P. T. S. Wong, E. C. S. Chan, and O. T. Page, 663.
Chen, P. K.
DNA base composition of *Cytophaga marinoflava* n. sp. determined by buoyant density measurents in cesium chloride. R. R. Colwell, R. V. Citarella, and P. K. Chen, 1099.
Chhonkar, P. K.
Fungi associated with legume root nodules and their effect on rhizobia. P. K. Chhonkar and N. S. Subba-Rao, 1253.
Chiasson, L. P.
Studies on induction of mutations by heat in spores of *Bacillus* subtilis. L. P. Chiasson and S. Zamenhof, 43.
The transformation of mucoid in *Bacillus subtilis*. L. P. Chiasson, 416.
Citarella, R. V.
DNA base composition of *Achromobacter liquefaciens* (Tulecke *et al.*). R. V. Citarella and R. R. Colwell, 418.
DNA base composition of *Cytophaga marinoflava* n. sp. determined by buoyant density measurements in cesium chloride. R. R. Colwell, R. V. Citarella, and P. K. Chen, 1099.
Clark, D. S.
Effect of ferrocyanide on growth and citric acid production by *Aspergillus niger*. H. Horitsu and D. S. Clark, 901.
Clegg, L. F. L.
The microflora of raw bulk tank milk. H. Jackson and L. F. L. Clegg, 429.
Colvin, J. R.
The non-spherulitic birefringence in cellulose pellicles of *Acetobacter xylinum*. J. R. Colvin, 909.
Colwell, R. R.
Taxonomy of enterococci by computer analysis. H. Raj and R. R. Colwell, 353.
DNA base composition of *Achromobacter liquefaciens* (Tulecke *et al.*). R. V. Citarella and R. R. Colwell, 418.
DNA base composition of *Cytophaga marinoflava* n. sp. determined by buoyant density measurements in cesium chloride. R. R. Colwell, R. V. Citarella, and P. K. Chen, 1099.
Cook, F. D.
A wide-spectrum antibiotic produced by a species of *Sorangium*. E. A. Peterson, D. C. Gillespie, and F. D. Cook, 221.
Cook, W. J.
Bacterial metabolism of D-aspartate involving racemization and decarboxylation. A. J. Markovetz, W. J. Cook, and A. D. Larson, 745.

Cooney, J. J.
A defined medium for growth and pigment synthesis of *Micrococcus roseus*. J. J. Cooney and O. C. Thierry, 83.
Physicochemical factors influencing growth and pigment synthesis by *Micrococcus roseus*. O. C. Thierry and J. J. Cooney, 691.
Coukell, M. B.
Acetohydroxybutyrate formation and amino acid excretion by streptomycin-dependent *Escherichia coli*. M. B. Coukell and W. J. Polglase, 865.
Craig, B. M.
Lipids of *Candida utilis*: changes with growth. P. S. S. Dawson and B. M. Craig, 775.
Critz, D. B.
Co-transduction of the genetic determinants of synthesis of penicillinase and methionine in *Staphylococcus aureus*. S. A. Harmon, J. N. Baldwin, W.-c. Tien, and D. B. Critz, 973.
Daft, G. C.
Migration of bacteria on seedling plants. C. Leben and G. C. Daft, 1119.
Daniel, P.
Étude d'une lignée de cellules KB infectées chroniquement par le virus para-influenzae type 3. III. Proportion de cellules infectées et produisant du virus. P. Daniel, 1055.
Daniels, H. J.
Inhibition of growth of *Pseudomonas denitrificans* by amino acids. H. J. Daniels, 1095.
Darbyshire, J. F.
Protozoa in the rhizosphere of *Lolium perenne* L. J. F. Darbyshire, 1287.
Dawson, P. S. S.
Lipids of *Candida utilis*: changes with growth. P. S. S. Dawson and B. M. Craig, 775.
Continuous phased growth, with a modified chemostat. P. S. S. Dawson, 876.
DeJong, P. J.
Qualitative analyses of vegetative cell walls and spore walls of some representative species of *Streptomyces*. P. J. DeJong and E. McCoy, 985.
de Repentigny, J.
Inhibitions produites par la 8-azaguanine chez une souche toxinogène de *Staphylococcus aureus*. P. Turgeon, S. Grimard, and J. de Repentigny, 588.
Acridine orange fluorochroming and ultraviolet absorption of *Staphylococcus aureus* cells modified by unbalanced nucleic acid and cell wall synthesis. J. de Repentigny, S. Sonea, and A. Frappier, 677.
Diena, B. B.
An appraisal of the bentonite flocculation test in the immune response to typhoid vaccines. R. Wallace, B. B. Diena, and L. Greenberg, 5.
Spheroplast induction and lysis of BCG strains by glycine and lysozyme. H. Sato, B. B. Diena, and L. Greenberg, 255.
The presence of flagellar antigen in *Salmonella typhi* spheroplasts: immunochemical studies. B. G. Sparkes, B. W. Griffiths, B. B. Diena, and L. Greenberg, 799.
Doane, F. W.
Morphological development of Chikungunya virus. M. M. T. Chain, F. W. Doane, and D. M. McLean, 895.
Donaldson, J.
Influence of triiodothyronine on plaque production by vesicular stomatitis virus. J. Donaldson and A. J. Moriarity, 585.
Dowell, V. R., Jr.
Extended study of *Serratia* in a diagnostic bacteriology laboratory. R. M. Hotz and V. R. Dowell, Jr., 99.
Doxtader, K. G.
Nitrification by growing and replacement cultures of *Aspergillus*. K. G. Doxtader and M. Alexander, 807.
Dudley, M. A.
Comparison of nicotinamide adenine dinucleotide synthesis by *Mycobacterium tuberculosis* and *Mycobacterium bovis*. M. A. Dudley and H. P. Willett, 1225.
Duff, D. C. B.
The antibacterial activity of marine planktonic algae. D. C. B. Duff, D. L. Bruce, and N. J. Antia, 877.
Duncan, D. W.
Iron oxidation by washed cell suspensions of the chemoautotroph, *Thiobacillus ferrooxidans*. J. Landesman, D. W. Duncan, and C. C. Walden, 25.
Oxidation of inorganic sulfur compounds by washed cell suspensions in *Thiobacillus ferrooxidans*. J. Landesman, D. W. Duncan, and C. C. Walden, 957.
Durham, N. N.
Metabolism of D-tryptophan by a species of *Flavobacterium*. J. R. Martin and N. N. Durham, 1269.

Eagon, R. G.
Lysozyme sensitivity of the cell wall of *Pseudomonas aeruginosa*: further evidence for the role of the non-peptidoglycan components in cell wall rigidity. K. J. Carson and R. G. Eagon, 105.
Embil, J. A., Jr.
Effect of splenectomy and sex in hamsters on adenovirus-12 oncogenesis. E. S. McFarlane and J. A. Embil, Jr., 1285.
Evans, D. H.
Colonial variation in *Actinobacillus mallei*. D. H. Evans, 609.
Growth of *Actinobacillus mallei* in chemically defined media. D. H. Evans, 617.
Utilization of carbohydrates by *Actinobacillus mallei*. D. H. Evans, 625.
Use of kanamycin for the isolation of auxotrophic mutants of *Actinobacillus mallei*. D. H. Evans, 641.
Ewing, W. H.
Description of a bacterium associated with redmouth disease of rainbow trout (*Salmo gairdneri*). A. J. Ross, R. R. Rucker, and W. H. Ewing, 763.
Fergus, C. L.
Paraffin utilization by thermophilic fungi. C. L. Fergus, 1067.
Field, L.
The antimicrobial activities of carbonyl and thiocarbamoyl disulfides. J. D. Buckman, B. S. Johnson, and L. Field, 1263.
Fitzgerald, J. W.
A study of arylsulfatase activity in *Proteus rettgeri*. F. H. Milazzo and J. W. Fitzgerald, 735.
Frappier, A.
Acridine orange fluorochroming and ultraviolet absorption of *Staphylococcus aureus* cells modified by unbalanced nucleic acid and cell wall synthesis. J. de Repentigny, S. Sonea, and A. Frappier, 677.
French, R. C.
The exclusion of intracellular lambda from *Escherichia coli* Y10 (λ) by T4r$^+$ coliphage. R. C. French and M. Barrens, 1197.
Gale, G. R.
Further studies of the antimycobacterial agents glycyl hydroxamic acid and β-alanyl hydroxamic acid. G. R. Gale. *With an appendix by* J. B. Hynes, 73.
Gandhi, S. S.
The inactivation and reactivation of a *Proteus rettgeri* phage in salt solutions. R. B. Stewart, S. S. Gandhi, F. H. Milazzo, and N. A. Hinton, 1203.
Gangloff, E. C.
Energy metabolism of *Phycomyces blakesleeanus*. The cytric acid cycle and associated amino acids. E. C. Gangloff, 1.
Garcia-Acha, I.
Effect of sodium propionate on sporulation of *Fusarium culmorum*. I. Garcia-Acha, J. A. Leal, and J. R. Villanueva, 1290.
Gelinas, R.
Metabolic injury to bacteria. I. Effect of freezing and storage on the requirements of *Aerobacter aerogenes* and *Escherichia coli* for growth. R. A. MacLeod, L. D. H. Smith, and R. Gelinas, 61.
Ghosh, B. K.
The interaction of guanofuracin and *Listeria monocytogenes*. E. G. D. Murray, B. K. Ghosh, and R. G. E. Murray, 285.
Ghys, R.
Uptake of organic and inorganic radioactive substances and multiplication of *Mycobacterium leprae murium* on alkaline galactomannan medium. R. Ghys, B. Gözsy, and L. Kátó, 1137.
Gillespie, D. C.
A wide-spectrum antibiotic produced by a species of *Sorangium*. E. A. Peterson, D. C. Gillespie, and F. D. Cook, 221.
Gomez-Miranda, B.
Formation of toxic substances by fungi in the degradation of some amino acids. J. A. Leal, B. Gomez-Miranda, and G. Nicolas, 1073.
Goos, R. D.
Adaptation of the soil microbiota to high CO_2 and low O_2 tensions. G. Stotzky and R. D. Goos, 849.
Gözsy, B.
Uptake of organic and inorganic radioactive substances and multiplication of *Mycobacterium leprae murium* on alkaline galactomannan medium. R. Ghys, B. Gözsy, and L. Kátó, 1137.

Greenberg, L.
An appraisal of the bentonite flocculation test in the immune response to typhoid vaccines. R. Wallace, B. B. Diena, and L. Greenberg, 5.
Spheroplast induction and lysis of BCG strains by glycine and lysozyme. H. Sato, B. B. Diena, and L. Greenberg, 255.
The presence of flagellar antigen in *Salmonella typhi* spheroplasts: immunochemical studies. B. G. Sparkes, B. W. Griffiths, B. B. Diena, and L. Greenberg, 799.
Griffiths, B. W.
The presence of flagellar antigen in *Salmonella typhi* spheroplasts: immunochemical studies. B. G. Sparkes, B. W. Griffiths, B. B. Diena, and L. Greenberg, 799.
Griffiths, D. A.
Vertical distribution of mycostasis in Malayan soils. D. A. Griffiths, 149.
Grimard, S.
Inhibitions produites par la 8-azaguanine chez une souche toxinogène de *Staphylococcus aureus*. P. Turgeon, S. Grimard, and J. de Repentigny, 588.
Gullmar, B.
The effect of temperature on toxin formation and toxin stability of *Clostridium botulinum* type E in different environments. K. Abrahamsson, B. Gullmar, and N. Molin, 385.
Hahn, N. J.
The Congo red reaction in bacteria and its usefulness in the identification of rhizobia. N. J. Hahn, 725.
Hamilton, R. D.
The glucose uptake kinetics of some marine bacteria. R. D. Hamilton, K. M. Morgan, and J. D. H. Strickland, 995.
Hannah, D. E.
The biological properties of 3,6-epidithiadiketopiperazines. Inhibition of growth of *Bacillus subtilis* by gliotoxins, sporidesmins, and chetomin. D. Brewer, D. E. Hannah, and A. Taylor, 1187.
Harmon, S. A.
Co-transduction of the genetic determinants of synthesis of penicillinase and methionine in *Staphylococcus aureus*. S. A. Harmon, J. N. Baldwin, W.-c. Tien, and D. B. Critz, 973.
Hartman, P. A.
Longevity of selected exogenous microorganisms in the rumen. J. C. Adams, P. A. Hartman, and N. L. Jacobson, 363.
Haskins, R. H.
Pigments of *Volucrispora aurantiaca* Haskins. L. C. Vining, L. R. Nesbitt, and R. H. Haskins, 409.
Hetrick, F. M.
Characteristics of hemadsorbing enteric (HADEN) virus. G. J. Spahn, S. B. Mohanty, and F. M. Hetrick, 653.
Hill, P.
Cellular proteolytic enzymes of *Penicillium cyaneofulvum*. P. Hill and S. M. Martin, 243.
Hinton, N. A.
The inactivation and reactivation of a *Proteus rettgeri* phage in salt solutions. R. B. Stewart, S. S. Gandhi, F. H. Milazzo, and N. A. Hinton, 1203.
Hochster, R. M.
Requirements for and rates of formation of extracellular pseudouridine by *Agrobacterium tumefaciens*. T. Suzuki and R. M. Hochster, 271.
Hodgkiss, W.
The comparative morphology of the spores of *Clostridium botulinum* type E and the spores of the "OS mutant". W. Hodgkiss, Z. J. Ordal, and D. C. Cann, 1283.
Hoeniger, J. F. M.
Cellular changes accompanying the swarming of *Proteus mirabilis*. II. Observations of stained organisms. J. F. M. Hoeniger, 113.
Hopper, M. W.
Degradation of penicillin G and three semisynthetic penicillins by *Bacillus cereus* and *Staphylococcus aureus* penicillinase. J. A. Yurchenco, M. W. Hopper, and G. H. Warren, 35.
Horitsu, H.
Effect of ferrocyanide on growth and citric acid production by *Aspergillus niger*. H. Horitsu and D. S. Clark, 901.
Horler, D. F.
Conversion of glutamic acid to volatile acids by *Micrococcus aerogenes*. D. F. Horler, D. W. S. Westlake, and W. B. McConnell, 47.
Glutaconic acid, a product of the fermentation of glutamic acid by *Peptococcus aerogenes*. D. F. Horler, W. B. McConnell, and D. W. S. Westlake, 1247.

Horton, J. C.
Regulation of induced cellulase synthesis in *Pyrenochaeta terrestris* Gorenz *et al.* by utilizable carbon compounds. J. C. Horton and N. T. Keen, 209.
Induction and repression of endopolygalacturonase synthesis by *Pyrenochaeta terrestris*. N. T. Keen and J. C. Horton, 443.
Hotz, R. M.
Extended study of *Serratia* in a diagnostic bacteriology laboratory. R. M. Hotz and V. R. Dowell, Jr., 99.
Hsu, K. H. K.
Raw milk as a source of mycobacteria. R. J. Jones, D. E. Jenkins, and K. H. K. Hsu, 979.
Hunt, D. E.
The effect of actinobolin on nucleic acid and protein synthesis in *Escherichia coli*. D. E. Hunt, R. F. Pittillo, E. P. Johnson, and F. C. Moncrief, 515.
Microbiological studies on the mechanism of action of sparsomycin. E. R. Bannister, D. E. Hunt, and R. F. Pittillo, 595.
Hynes, J. B.
Further studies of the antimycobacterial agents glycyl hydroxamic acid and β-alanyl hydroxamic acid. G. R. Gale. *With an appendix by* J. B. Hynes, 73.
Ingram, D. G.
Comparison of antibiotic susceptibility of a marine *Pseudomonas* and its mutant. N. Joshi and D. G. Ingram, 867.
Jackson, C. P.
Utilization of glycerol by *Acetobacter acetigenum* under different cultural conditions. K. Ramamurti and C. P. Jackson, 795.
Jackson, H.
The microflora of raw bulk tank milk. H. Jackson and L. F. L. Clegg, 429.
Jacobson, N. L.
Longevity of selected exogenous microorganisms in the rumen. J. C. Adams, P. A. Hartman, and N. L. Jacobson, 363.
Jakus, C. M.
The inactivation of pertussis protective antigen, histamine sensitizing factor, and lipopolysaccharide by sodium metaperiodate. A. C. Wardlaw and C. M. Jakus, 1105.
Jarvie, W.
Electromicroscopy studies of conidial walls of *Sphaerotheca macularis*, *Penicillium levitum*, and *Aspergillus niger*. W. E. McKeen, N. Mitchell, W. Jarvie, and R. Smith, 427.
Jasmin, R.
Renversement par la thiamine et le pyridoxal de l'inhibition produite par l'hydroxy-3 thalidomide sur la croissance d'*Escherichia coli*. R. Jasmin and W. J. Johnson, 333.
Jayasankar, N. P.
Mode of attack on phenol by a *Micrococcus* sp. isolated from coir rets. N. P. Jayasankar and J. V. Bhat, 1031.
Jaye, M.
Germination response of spores of *Bacillus megaterium* after exposure to calcium dipicolinate at 60 °C. M. Jaye and Z. J. Ordal, 199.
Jenkins, D. E.
Raw milk as a source of mycobacteria. R. J. Jones, D. E. Jenkins, and K. H. K. Hsu, 979.
Johnson, B. S.
The antimicrobial activities of carbonyl and thiocarbamoyl disulfides. J. D. Buckman, B. S. Johnson, and L. Field, 1263.
Johnson, E. P.
Concerning the mechanism by which hadacidin potentiates the damaging action of ionizing irradiation on bacteria. R. F. Pittillo, E. R. Bannister, and E. P. Johnson, 17.
The effect of actinobolin on nucleic acid and protein synthesis in *Escherichia coli*. D. E. Hunt, R. F. Pittillo, E. P. Johnson, and F. C. Moncrief, 515.
Johnson, M. B.
Growth of *Arthrobacter citreus* at an elevated temperature. I. Promotion by associated microorgansims. E. C. S. Chan and M. B. Johnson, 581.
Johnson, W. J.
Renversement par la thiamine et le pyridoxal de l'inhibition produite par l'hydroxy-3 thalidomide sur la croissance d'*Escherichia coli*. R. Jasmin and W. J. Johnson, 333.
Jones, R. J.
Raw milk as a source of mycobacteria. R. J. Jones, D. E. Jenkins, and K. H. K. Hsu, 979.
Jordan, D. C.
The mode of action of the antibiotic paromomycin on *Staphylococcus aureus*. A. von Seefried and D. C Jordan, 1157.

Joshi, N.
Comparison of antibiotic susceptibility of a marine *Pseudomonas* and its mutant. N. Joshi and D. G. Ingram, 867.
Kaneda, T.
Biosynthesis of branched-chain fatty acids. IV. Factors affecting relative abundance of fatty acids produced by *Bacillus subtilis*. T. Kaneda, 501.
Kátó, L.
Uptake of organic and inorganic radioactive substances and multiplication of *Mycobacterium leprae murium* on alkaline galactomannan medium. R. Ghys, B. Gözsy, and L. Kátó, 1137.
Keen, N. T.
Regulation of induced cellulase synthesis in *Pyrenochaeta terrestris* Gorenz *et al.* by utilizable carbon compounds. J. C. Horton and N. T. Keen, 209.
Induction and repression of endopolygalacturonase synthesis by *Pyrenochaeta terrestris*. N. T. Keen and J. C. Horton, 443.
Keene, J. H.
Preparation and chemical properties of colicine I. J. H. Keene, 425.
Khairat, O.
An efficient general-purpose culture medium for aerobes and anaerobes. O. Khairat, 323.
Knight, S. G.
Production of a rennin-like enzyme by molds. S. G. Knight, 420.
Kocur, M.
Electron microscopy of ultrathin sections of *Micrococcus cryophilus*. K. Mazanec, M. Kocur, and T. Martinec, 465.
Koft, B. W.
Biosynthesis of pteroic-acid-like materials by *Staphylococcus epidermidis*. F. D. Williams and B. W. Koft, 565.
Konowalchuk, J.
The behavior of Coxsackie B5 variants on primary cells of monkey kidney and on HEp-2 cells. J. Konowalchuk and J. I. Speirs, 411.
Korgaonkar, K. S.
Evaluation of acridine orange fluorescence test in viability studies on *Escherichia coli*. K. S. Korgaonkar and S. S. Ranade, 185.
Kroeker, J.
Mouse-protective antibodies in human sera against the "Smith" strain of *Staphylococcus aureus*. P. Warner, W. K. Slipetz, and J. Kroeker, 949.
Kushnarev, V. M.
Electron microscopy of alkaline phosphatase of *Escherichia coli*. V. M. Kushnarev and T. A. Smirnova, 605.
Landesman, J.
Iron oxidation by washed cell suspensions of the chemoautotroph, *Thiobacillus ferrooxidans*. J. Landesman, D. W. Duncan, and C. C. Walden, 25.
Oxidation of inorganic sulfur compounds by washed cell suspensions in *Thiobacillus ferrooxidans*. J. Landesman, D. W. Duncan, and C. C. Walden, 957.
Lapage, S. P.
An electron microscope study of thin sections of *Haemophilus vaginalis* (Gardner and Dukes) and some possibly related species. A. Reyn, A. Birch-Andersen, and S. P. Lapage, 1125.
Larson, A. D.
Bacterial metabolism of D-aspartate involving racemization and decarboxylation. A. J. Markovetz, W. J. Cook, and A. D. Larson, 745.
Leal, J. A.
Formation of toxic substances by fungi in the degradation of some amino acids. J. A. Leal, B. Gomez-Miranda, and G. Nicolas, 1073.
Effect of sodium propionate on sporulation of *Fusarium culmorum*. I. Garcia-Acha, J. A. Leal, and J. R. Villanueva, 1290.
Leben, C.
Migration of bacteria on seedling plants. C. Leben and G. C. Daft, 1119.
McCalla, D. R.
Prophage induction by N-methyl-N′-nitro-N-nitrosoguanidine. R. K. Allan and D. R. McCalla, 202.
McConnell, W. B.
Conversion of glutamic acid to volatile acids by *Micrococcus aerogenes*. D. F. Horler, D. W. S. Westlake, and W. B. McConnell, 47.
Glutaconic acid, a product of the fermentation of glutamic acid by *Peptococcus aerogenes*. D. F. Horler, W. B. McConnell, and D. W. S. Westlake, 1247.

McCoy, E.
Qualitative analyses of vegetative cell walls and spore walls of some representative species of *Streptomyces*. P. J. DeJong and E. McCoy, 985.
McCready, R. G. L.
Bacteria can penetrate rock. G. E. Myers and R. G. L. McCready, 477.
Selenite reduction by *Salmonella heidelberg*. R. G. L. McCready, J. N. Campbell, and J. I. Payne, 703.
McDade, J. E.
Further studies on the antigens of *Escherichia coli* O26:B6. J. E. McDade and W. R. Bailey, 249.
McDonald, I. J.
Regulation of proteinase formation in a species of *Micrococcus*. I. J. McDonald and A. K. Chambers, 1175.
Permeability of a micrococcal cell to maltose and some related sugars. P. J. le B. Williams and I. J. McDonald, 1213.
MacDonald, J. C.
The isolation of pulcherriminic acid from *Micrococcus violagabriellae*. J. C. MacDonald, 55.
The utilization of tryptophan in the biosynthesis of echinulin. J. C. MacDonald, and G. P. Slater, 455.
Production of pyocyanine by *Pseudomonas aeruginosa* ATCC 9027. J. C. MacDonald, 771.
McFarlane, E. S.
Effect of splenectomy and sex in hamsters on adenovirus-12 oncogenesis. E. S. McFarlane and J. A. Embil, Jr., 1285.
McKeen, C. D.
Influence of resistant and susceptible varieties of muskmelon on size of populations of the *Fusarium* wilt fungus and wilt in naturally infested soils. R. N. Wensley and C. D. McKeen, 1115.
McKeen, W. E.
Electromicroscopy studies of conidial walls of *Sphaerotheca macularis*, *Penicillium levitum*, and *Aspergillus niger*. W. E. McKeen, N. Mitchell, W. Jarvie, and R. Smith, 427.
McLean, D. M.
Morphological development of Chikungunya virus. M. M. T. Chain, F. W. Doane, and D. M. McLean, 895.
MacLeod, R. A.
Metabolic injury to bacteria. I. Effect of freezing and storage on the requirements of *Aerobacter aerogenes* and *Escherichia coli* for growth. R. A. MacLeod, L. D. H. Smith, and R. Gelinas, 61.
McLintock, J. R.
Western equine encephalitis in Saskatchewan birds and mammals 1962–1963. A. N. Burton, J. R. McLintock, J. Spalatin, and J. G. Rempel, 133.
MacMillan, P.C.
Sampling from a modified Torbal anaerobic jar. P. C. MacMillan and W. M. Ridge, 1072.
McVeigh, I.
Factors affecting the growth of *Mycobacterium marinum*. B. N. Trentham and I. McVeigh, 715.
Mahony, D. E.
Direct testing of antibiotic sensitivity by a microcolony method. P. Chadwick and D. E. Mahony, 683.
A rapid determination of bacterial antibiotic sensitivity in mixed culture. D. E. Mahony and P. Chadwick, 699.
Maniar, A. C.
Biological activities of hamycin. A. C. Maniar and S. Mavdikar, 377.
Maramorosch, K.
The occurrence of microbial forms of unusual morphology in European and Asian soils. S. W. Orenski, V. Bystricky, and K. Maramorosch, 1291.
Markovetz, A. J.
Bacterial metabolism of D-aspartate involving racemization and decarboxylation. A. J. Markovetz, W. J. Cook, and A. D. Larson, 745.
Martin, J. R.
Metabolism of D-tryptophan by a species of *Flavobacterium*. J. R. Martin and N. N. Durham, 1269.
Martin, S. M.
Cellular proteolytic enzymes of *Penicillium cyaneofulvum*. P. Hill and S. M. Martin, 243.

Martinec, T.
Electron microscopy of ultrathin sections of *Micrococcus cryophilus*. K. Mazanec, M. Kocur, and T. Martinec, 465.
Mason, M. A.
The spheroplasts of *Bordetella pertussis*. M. A. Mason, 539.
Matsushima, K.
The purification and properties of D-allosephosphate isomerase of *Aerobacter aerogenes*. K. Matsushima and F. J. Simpson, 313.
Mavdikar, S.
Biological activities of hamycin. A. C. Maniar and S. Mavdikar, 377.
Mazanec, K.
Electron microscopy of ultrathin sections of *Micrococcus cryophilus*. K. Mazanec, M. Kocur, and T. Martinec, 465.
Merdinger, E.
Lipids of *Pullularia pullulans*. E. Merdinger, 206.
Milazzo, F. H.
A study of arylsulfatase activity in *Proteus rettgeri*. F. H. Milazzo and J. W. Fitzgerald, 735.
The inactivation and reactivation of a *Proteus rettgeri* phage in salt solutions. R. B. Stewart, S. S. Gandhi, F. H. Milazzo, and N. A. Hinton, 1203.
Miller, J. J.
A serological comparison of vegetative cell and ascus walls and the spore coat of *Saccharomyces cerevisiae*. I. J. Snider and J. J. Miller, 485.
Mitchell, N.
Electromicroscopy studies of conidial walls of *Sphaerotheca macularis*, *Penicillium levitum*, and *Aspergillus niger*. W. E. McKeen, N. Mitchell, W. Jarvie, and R. Smith, 427.
Mitchell, R.
Hyphal cell wall structure of two species of *Pythium*. R. Mitchell and N. Sabar, 471.
Mohanty, S. B.
Characteristics of hemadsorbing enteric (HADEN) virus. G. J. Spahn, S. B. Mohanty, and F. M. Hetrick, 653.
Molin, N.
The effect of temperature on toxin formation and toxin stability of *Clostridium botulinum* type E in different environments. K. Abrahamsson, B. Gullmar, and N. Molin, 385.
Moncrief, F. C.
The effect of actinobolin on nucleic acid and protein synthesis in *Escherichia coli*. D. E. Hunt, R. F. Pittillo, E. P. Johnson, and F. C. Moncrief, 515.
Morgan, K. M.
The glucose uptake kinetics of some marine bacteria. R. D. Hamilton, K. M. Morgan, and J. D. H. Strickland, 995.
Moriarity, A. J.
Influence of triiodothyronine on plaque production by vesicular stomatitis virus. J. Donaldson and A. J. Moriarity, 585.
Morris, O. N.
Histochemical changes in *Melolontha melolontha* (Linnaeus) (Coleoptera) infected by a new virus. O. N. Morris, 965.
Morse, A. T.
Production of green algae in deuterium oxide. A. J. Williams, A. T. Morse, and R. S. Stuart, 1167.
Murray, E. G. D.
The interaction of guanofuracin and *Listeria monocytogenes*. E. G. D. Murray, B. K. Ghosh, and R. G. E. Murray, 285.
Murray, R. G. E.
The cell wall and cell division of Gram-negative bacteria. P. Steed and R. G. E. Murray, 263.
The interaction of guanofuracin and *Listeria monocytogenes*. E. G. D. Murray, B. K. Ghosh, and R. G. E. Murray, 285.
Myers, G. E.
Bacteria can penetrate rock. G. E. Myers and R. G. L. McCready, 477.
Naguib, M. I.
Effect of colchicine on the mycelial weight and the nitrogen and phosphorus contents of the mycelium of *Cunninghamella* sp. M. I. Naguib and A. M. Salama, 91.
Nair, P. M.
Clavine alkaloid formation in submerged cultures of a *Claviceps* species. L. C. Vining and P. M. Nair, 915.

Nesbitt, L. R.
Pigments of *Volucrispora aurantiaca* Haskins. L. C. Vining, L. R. Nesbitt, and R. H. Haskins, 409.
Neurath, P. W.
Control of rhythmic growth of a *Neurospora* "clock" mutant by sugars. M. D. Berliner and P. W. Neurath, 1068.
Nicolas, G.
Formation of toxic substances by fungi in the degradation of some amino acids. J. A. Leal, B. Gomez-Miranda, and G. Nicolas, 1073.
Ordal, Z. J.
Germination response of spores of *Bacillus megaterium* after exposure to calcium dipicolinate at 60 °C. M. Jaye and Z. J. Ordal, 199.
The comparative morphology of the spores of *Clostridium botulinum* type E and the spores of the "OS mutant". W. Hodgkiss, Z. J. Ordal, and D. C. Cann, 1283.
Orenski, S. W.
The occurrence of microbial forms of unusual morphology in European and Asian soils. S. W. Orenski, V. Bystricky, and K. Maramorosch, 1291.
Page, O. T.
Growth of *Arthrobacter citreus* at an elevated temperature. II. Promotion by metallic ions. P. T. S. Wong, E. C. S. Chan, and O. T. Page, 663.
Parker, S. E.
Estimation of virulence of *Staphylococcus aureus* for mice: the exceptional virulence of the Smith strain. S. E. Parker, P. Warner, and W. K. Slipetz, 753.
Payne, J. I.
Selenite reduction by *Salmonella heidelberg*. R. G. L. McCready, J. N. Campbell, and J. I. Payne, 703.
Penn, I.
The effect of hyperbaric oxygen upon aerobic bacteria. I. In vitro studies. G. M. Wiseman, F. C. Violago, E. Roberts, and I. Penn, 521.
The effect of hyperbaric oxygen upon aerobic bacteria. II. Studies of toxin production by *Staphylococcus aureus*. R. V. Argamaso, G. M. Wiseman, and I. Penn, 863.
Peterson, E. A.
A wide-spectrum antibiotic produced by a species of *Sorangium*. E. A. Peterson, D. C. Gillespie, and F. D. Cook, 221.
Pittillo, R. F.
Concerning the mechanism by which hadacidin potentiates the damaging action of ionizing irradiation on bacteria. R. F. Pittillo, E. R. Bannister, and E. P. Johnson, 17.
The effect of actinobolin on nucleic acid and protein synthesis in *Escherichia coli*. D. E. Hunt, R. F. Pittillo, E. P. Johnson, and F. C. Moncrief, 515.
Microbiological studies on the mechanism of action of sparsomycin. E. R. Bannister, D. E. Hunt, and R. F. Pittillo, 595.
Polglase, W. J.
Acetohydroxybutyrate formation and amino acid excretion by streptomycin-dependent *Escherichia coli*. M. B. Coukell and W. J. Polglase, 865.
Raj, H.
A new procedure for the detection and enumeration of coagulase-positive staphylococci from frozen seafoods. H. Raj, 191.
Taxonomy of enterococci by computer analysis. H. Raj and R. R. Colwell, 353.
Ramamurti, K.
Utilization of glycerol by *Acetobacter acetigenum* under different cultural conditions. K. Ramamurti and C. P. Jackson, 795.
Ranade, S. S.
Evaluation of acridine orange fluorescence test in viability studies on *Escherichia coli*. K. S. Korgaonkar and S. S. Ranade, 185.
Rem, L. T.
Influence of clay minerals on microorganisms. I. Montmorillonite and kaolinite on bacteria. G. Stotzky and L. T. Rem, 547.
Rempel, J. G.
Western equine encephalitis in Saskatchewan birds and mammals 1962–1963. A. N. Burton, J. R. McLintock, J. Spalatin, and J. G. Rempel, 133.
Reyn, A.
An electron microscope study of thin sections of *Haemophilus vaginalis* (Gardner and Dukes) and some possibly related species. A. Reyn, A. Birch-Andersen, and S. P. Lapage, 1125.
Ridge, W. M.
Sampling from a modified Torbal anaerobic jar. P. C. MacMillan and W. M. Ridge, 1072.

Robb, L. A.
Separation of diphtheria toxin proteins by Sephadex gel. L. A. Robb, 573.
Roberts, E.
The effect of hyperbaric oxygen upon aerobic bacteria. I. In vitro studies. G. M. Wiseman, F. C. Violago, E. Roberts, and I. Penn, 521.
Ross, A. J.
Description of a bacterium associated with redmouth disease of rainbow trout (*Salmo gairdneri*). A. J. Ross, R. R. Rucker, and W. H. Ewing, 763.
Rucker, R. R.
Description of a bacterium associated with redmouth disease of rainbow trout (*Salmo gairdneri*). A. J. Ross, R. R. Rucker, and W. H. Ewing, 763.
Russell, A. D.
Some factors influencing the revival of heat-damaged *Staphylococcus aureus*. M. C. Allwood and A. D. Russell, 1295.
Sabar, N.
Hyphal cell wall structure of two species of *Pythium*. R. Mitchell and N. Sabar, 471.
Sala, F.
Strain degeneration during continuous culture of a chloramphenicol-producing *Streptomyces venezuelae*. F. Sala and D. W. S. Westlake, 817.
Salama, A. M.
Effect of colchicine on the mycelial weight and the nitrogen and phosphorus contents of the mycelium of *Cunninghamella* sp. M. I. Naguib and A. M. Salama, 91.
Sato, H.
Spheroplast induction and lysis of BCG strains by glycine and lysozyme. H. Sato, B. B. Diena, and L. Greenberg, 255.
Schwinghamer, E. A.
Factors affecting phage-restricting ability in *Rhizobium leguminosarum* strain L4. E. A. Schwinghamer, 395.
Shargool, P. D.
Pseudomonas aeruginosa bacteriophage SD1. P. D. Shargool and E. E. Townsend, 885.
Shieh, H. S.
Further studies on the oxidation of betaine by a marine bacterium, *Achromobacter cholinophagum*. H. S. Shieh, 299.
Silbernagel, S. B.
Bioassay of seawater. I. A ^{14}C uptake method for the determination of concentrations of vitamin B_{12} in seawater. A. F. Carlucci and S. B. Silbernagel, 175.
Bioassay of seawater. II. Methods for the determination of concentrations of dissolved vitamin B_1 in seawater. A. F. Carlucci and S. B. Silbernagel, 1079.
Simpson, F. J.
The purification and properties of D-allosephosphate isomerase of *Aerobacter aerogenes*. K. Matsushima and F. J. Simpson, 313.
Sinha, D. B.
Formation of polythionates and their interrelationships during oxidation of thiosulfate by *Thiobacillus ferrooxidans*. D. B. Sinha and C. C. Walden, 1041.
Slater, G. P.
The utilization of tryptophan in the biosynthesis of echinulin. J. C. MacDonald and G. P. Slater, 455.
Slipetz, W. K.
Estimation of virulence of *Staphylococcus aureus* for mice: the exceptional virulence of the Smith strain. S. E. Parker, P. Warner, and W. K. Slipetz, 753.
Mouse-protective antibodies in human sera against the "Smith" strain of *Staphylococcus aureus*. P. Warner, W. K. Slipetz, and J. Kroeker, 949.
Slodki, M. E.
Extracellular heteropolysaccharides from *Cryptococcus* and *Tremella*: a possible taxonomic relationship. M. E. Slodki, L. J. Wickerham, and R. J. Bandoni, 489.
Hydrolysis products from an extracellular *Tremella* polysaccharide. M. E. Slodki, 495.
Smirnoff, W. A.
A nucleopolyhedrosis of *Pandemis lamprosana* (Grote). W. A. Smirnoff, 1076.
Smirnova, T. A.
Electron microscopy of alkaline phosphatase of *Escherichia coli*. V. M. Kushnarev and T. A. Smirnova, 605.
Smith, L. D. H.
Metabolic injury to bacteria. I. Effect of freezing and storage on the requirements of *Aerobacter aerogenes* and *Escherichia coli* for growth. R. A. MacLeod, L. D. H. Smith, and R. Gelinas, 61.

Smith, R.
Electromicroscopy studies of conidial walls of *Sphaerotheca macularis*, *Penicillium levitum*, and *Aspergillus niger*. W. E. McKeen, N. Mitchell, W. Jarvie, and R. Smith, 427.
Snider, I. J.
A serological comparison of vegetative cell and ascus walls and the spore coat of *Saccharomyces cerevisiae*. I. J. Snider and J. J. Miller, 485.
Sonea, S.
Acridine orange fluorochroming and ultraviolet absorption of *Staphylococcus aureus* cells modified by unbalanced nucleic acid and cell wall synthesis. J. de Repentigny, S. Sonea, and A. Frappier, 677.
Soper, W. T.
Effect of sodium bicarbonate on plaque formation by two strains of Venezuelan equine encephalomyelitis virus. W. T. Soper, 872.
Spahn, G. J.
Characteristics of hemadsorbing enteric (HADEN) virus. G. J. Spahn, S. B. Mohanty, and F. M. Hetrick, 653.
Spalatin, J.
Western equine encephalitis in Saskatchewan birds and mammals 1962–1963. A. N. Burton, J. R. McLintock, J. Spalatin, and J. G. Rempel, 133.
Sparkes, B. G.
The presence of flagellar antigen in *Salmonella typhi* spheroplasts: immunochemical studies. B. G. Sparkes, B. W. Griffiths, B. B. Diena, and L. Greenberg, 799.
Specht, C. H.
Nematocidal activity to *Pratylenchus penetrans* by culture fluids from actinomycetes and bacteria. J. T. Walker, C. H. Specht, and J. F. Bekker, 347.
Speirs, J. I.
The behavior of Coxsackie B5 variants on primary cells of monkey kidney and on HEp-2 cells. J. Konowalchuk and J. I. Speirs, 411.
Spencer, J. F. T.
The utilization of flavonoid compounds by yeasts and yeast-like fungi. D. W. S. Westlake and J. F. T. Spencer, 165.
Steed, P.
The cell wall and cell division of Gram-negative bacteria. P. Steed and R. G. E. Murray, 263.
Stewart, R. B.
The inactivation and reactivation of a *Proteus rettgeri* phage in salt solutions. R. B. Stewart, S. S. Gandhi, F. H. Milazzo, and N. A. Hinton, 1203.
Stotzky, G.
Influence of clay minerals on microorganisms. I. Montmorillonite and kaolinite on bacteria. G. Stotzky and L. T. Rem, 547.
Influence of clay minerals on microorganisms. II. Effect of various clay species, homoionic clays, and other particles on bacteria. G. Stotzky, 831.
Adaptation of the soil microbiota to high CO_2 and low O_2 tensions. G. Stotzky and R. D. Goos, 849.
Influence of clay minerals on microorganisms. III. Effect of particle size, cation exchange capacity, and surface area on bacteria. G. Stotzky, 1235.
Strickland, J. D. H.
The glucose uptake kinetics of some marine bacteria. R. D. Hamilton, K. M. Morgan, and J. D. H. Strickland, 995.
Strijdom, B. W.
Medium supplementation with D- and L-amino acids relative to growth and efficiency of *Rhizobium meliloti*. B. W. Strijdom and O. N. Allen, 275.
Strobel, G. A.
The assimilation of $H^{14}CN$ by a variety of fungi. J. Allen and G. A. Strobel, 414.
Stuart, R. S.
Production of green algae in deuterium oxide. A. J. Williams, A. T. Morse, and R. S. Stuart, 1167.
Subba-Rao, N. S.
Fungi associated with legume root nodules and their effect on rhizobia. P. K. Chhonkar and N. S. Subba-Rao, 1253.
Suzuki, T.
Requirements for and rates of formation of extracellular pseudouridine by *Agrobacterium tumefaciens*. T. Suzuki and R. M. Hochster, 271.
Tarshis, M. S.
A Tween (R)-plasma niacin test medium for the rapid and eugonic cultivation of mycobacteria and the rapid determination of their niacin content. M. S. Tarshis, 870.

Tavormina, P. A.
DL-S-Trifluoromethylhomocysteine, a novel inhibitor of microbial growth. W. A. Zygmunt and P. A. Tavormina, 143.
In vitro effect of lysostaphin, neomycin, and bacitracin on *Staphylococcus aureus*. W. A. Zygmunt, H. P. Browder, and P. A. Tavormina, 204.
Growth inhibition of unusual strains of *Staphylococcus aureus* by lysostaphin and other antistaphylococcal antibiotics. W. A. Zygmunt, H. P. Browder, and P. A. Tavormina, 341.
Taylor, A.
The biological properties of 3,6-epidithiadiketopiperazines. Inhibition of growth of *Bacillus subtilis* by gliotoxins, sporidesmins, and chetomin. D. Brewer, D. E. Hannah, and A. Taylor, 1187.
Teresa, G. W.
Streptomyces isolates capable of lysing *Candida albicans*. C. S. Wang and G. W. Teresa, 1297.
Thacore, H.
The induction by lysozyme of an L-type growth in *Mycobacterium tuberculosis*. H. P. Willett and H. Thacore, 11.
Thieleke, D. W.
Stimulation of bacteria and actinomycetes by the polyene antibiotic pimaricin in soil dilution plates. P. H. Tsao and D. W. Thieleke, 1091.
Thierry, O. C.
A defined medium for growth and pigment synthesis of *Micrococcus roseus*. J. J. Cooney and O. C. Thierry, 83.
Physicochemical factors influencing growth and pigment synthesis by *Micrococcus roseus*. O. C. Thierry and J. J. Cooney, 691.
Tien, W.-c.
Co-transduction of the genetic determinants of synthesis of penicillinase and methionine in *Staphylococcus aureus*. S. A. Harmon, J. N. Baldwin, W.-c. Tien, and D. B. Critz, 973.
Timonin, M. I.
Rhizosphere effect of healthy and diseased lodgepole pine seedlings. M. I. Timonin, 531.
Townsend, E. E.
Pseudomonas aeruginosa bacteriophage SD1. P. D. Shargool and E. E. Townsend, 885.
Trentham, B. N.
Factors affecting the growth of *Mycobacterium marinum*. B. N. Trentham and I. McVeigh, 715.
Tsao, P. H.
Stimulation of bacteria and actinomycetes by the polyene antibiotic pimaricin in soil dilution plates. P. H. Tsao and D. W. Thieleke, 1091.
Turgeon, P.
Inhibitions produites par la 8-azaguanine chez une souche toxinogène de *Staphylococcus aureus*. P. Turgeon, S. Grimard, and J. de Repentigny, 588.
Twarog, R.
Properties of four *Herellea* phages. L. Blouse and R. Twarog, 1023.
Uffen, R. L.
Temperature-dependent pigment production by *Bacillus cereus* var. *alesti*. R. L. Uffen and E. Canale-Parola, 590.
Villanueva, J. R.
Effect of sodium propionate on sporulation of *Fusarium culmorum*. I. Garcia-Acha, J. A. Leal, and J. R. Villanueva, 1290.
Vining, L. C.
Pigments of *Volucrispora aurantiaca* Haskins. L. C. Vining, L. R. Nesbitt, and R. H. Haskins, 409.
Clavine alkaloid formation in submerged cultures of a *Claviceps* species. L. C. Vining and P. M. Nair, 915.
Violago, F. C.
The effect of hyperbaric oxygen upon aerobic bacteria. I. In vitro studies. G. M. Wiseman, F. C. Violago, E. Roberts, and I. Penn, 521.
von Seefried, A.
The mode of action of the antibiotic paromomycin on *Staphylococcus aureus*. A. von Seefried and D. C. Jordan, 1157.
von Tigerstrom, M.
The accumulation of α-ketoglutarate by suspensions of *Pseudomonas aeruginosa*. M. von Tigerstrom and J. J. R. Campbell, 1005.
The tricarboxylic acid cycle, the glyoxylate cycle, and the enzymes of glucose oxidation in *Pseudomonas aeruginosa*. M. von Tigerstrom and J. J. R. Campbell, 1015.

Walden, C. C.
Iron oxidation by washed cell suspensions of the chemoautotroph, *Thiobacillus ferrooxidans*. J. Landesman, D. W. Duncan, and C. C. Walden, 25.
Oxidation of inorganic sulfur compounds by washed cell suspensions in *Thiobacillus ferrooxidans*. J. Landesman, D. W. Duncan, and C. C. Walden, 957.
Formation of polythionates and their interrelationships during oxidation of thiosulfate by *Thiobacillus ferrooxidans*. D. B. Sinha and C. C. Walden, 1041.
Walker, J. T.
Nematocidal acitivity to *Pratylenchus penetrans* by culture fluids from actinomycetes and bacteria. J. T. Walker, C. H. Specht, and J. F. Bekker, 347.
Wallace, R.
An appraisal of the bentonite flocculation test in the immune response to typhoid vaccines. R. Wallace, B. B. Diena, and L. Greenberg, 5.
Wang, C. S.
Streptomyces isolates capable of lysing *Candida albicans*. C. S. Wang and G. W. Teresa, 1297.
Wang, H.
Further analysis of the reaction of *Paramecium* to cigarette paper ash solutions. H. Wang, 125.
Ward, B. Q.
Spore germination and vegetative growth of *Clostridium botulinum* type E in synthetic media. B. Q. Ward and B. J. Carroll, 1145.
Wardlaw, A. C.
The inactivation of pertussis protective antigen, histamine sensitizing factor, and lipopolysaccharide by sodium metaperiodate. A. C. Wardlaw and C. M. Jakus, 1105.
Warner, P.
Estimation of virulence of *Staphylococcus aureus* for mice: the exceptional virulence of the Smith strain. S. E. Parker, P. Warner, and W. K. Slipetz, 753.
Mouse-protective antibodies in human sera against the "Smith" strain of *Staphylococcus aureus*. P. Warner, W. K. Slipetz, and J. Kroeker, 949.
Warren, G. H.
Degradation of penicillin G and three semisynthetic penicillins by *Bacillus cereus* and *Staphylococcus aureus* penicillinase. J. A. Yurchenco, M. W. Hopper, and G. H. Warren, 35.
Watko, L. P.
A chemically defined medium for growth of *Pasteurella multocida*. L. P. Watko, 933.
Weigl, J.
Glycosulfatase of *Pseudomonas carrageenovora*: desulfation of disaccharide from κ-carrageenan. J. Weigl and W. Yaphe, 874.
The enzymic hydrolysis of carrageenan by *Pseudomonas carrageenovora*: purification of κ-carrageenase. J. Weigl and W. Yaphe, 939.
Wensley, R. N.
Influence of resistant and susceptible varieties of muskmelon on size of populations of the *Fusarium* wilt fungus and wilt in naturally infested soils. R. N. Wensley and C. D. McKeen, 1115.
Westlake, D. W. S.
Conversion of glutamic acid to volatile acids by *Micrococcus aerogenes*. D. F. Horler, D. W. S. Westlake and W. B. McConnell, 47.
The utilization of flavonoid compounds by yeasts and yeast-like fungi. D. W. S. Westlake and J. F. T. Spencer, 165.
Strain degeneration during continuous culture of a chloramphenicol-producing *Streptomyces venezuelae*. F. Sala and D. W. S. Westlake, 817.
Glutaconic acid, a product of the fermentation of glutamic acid by *Peptococcus aerogenes*. D. F. Horler, W. B. McConnell, and D. W. S. Westlake, 1247.
Wickerham, L. J.
Extracellular heteropolysaccharides from *Cryptoccocus* and *Tremella*: a possible taxonomic relationship. M. E. Slodki, L. J. Wickerham, and R. J. Bandoni, 489.
Willett, H. P.
The induction by lysozyme of an L-type growth in *Mycobacterium tuberculosis*. H. P. Willett and H. Thacore, 11.
Comparison of nicotinamide adenine dinucleotide synthesis by *Mycobacterium tuberculosis* and *Mycobacterium bovis*. M. A. Dudley and H. P. Willett, 1225.
Williams, A. J.
Production of green algae in deuterium oxide. A. J. Williams, A. T. Morse, and R. S. Stuart, 1167.

Williams, F. D.
Biosynthesis of pteroic-acid-like materials by *Staphylococcus epidermidis*. F. D. Williams and B. W. Koft, 565.
Williams, P. J. le B.
Permeability of a micrococcal cell to maltose and some related sugars. P. J. le B. Williams and I. J. McDonald, 1213.
Wiseman, G. M.
The effect of hyperbaric oxygen upon aerobic bacteria. I. In vitro studies. G. M. Wiseman, F. C. Violago, E. Roberts, and I. Penn, 521.
The effect of hyperbaric oxygen upon aerobic bacteria. II. Studies of toxin production by *Staphylococcus aureus*. R. V. Argamaso, G. M. Wiseman, and I. Penn, 863.
Witter, L. D.
Variation of the osmotic fragility of spheroplasts with growth temperature. Y. Azuma and L. D. Witter, 422.
Wong, P. T. S.
Growth of *Arthrobacter citreus* at an elevated temperature. II. Promotion by metallic ions. P. T. S. Wong, E. C. S. Chan, and O. T. Page, 663.
Yamamoto, T.
Some physical and growth characteristics of a canine adenovirus isolated from dogs with laryngotracheitis. T. Yamamoto, 303.
Yaphe, W.
Glycosulfatase of *Pseudomonas carrageenovora*: desulfation of disaccharide from κ-carrageenan. J. Weigl and W. Yaphe, 874.
The enzymic hydrolysis of carrageenan by *Pseudomonas carrageenovora*: purification of κ-carrageenase. J. Weigl and W. Yaphe, 939.
Yurchenco, J. A.
Degradation of penicillin G and three semisynthetic penicillins by *Bacillus cereus* and *Staphylococcus aureus* penicillinase. J. A. Yurchenco, M. W. Hopper, and G. H. Warren, 35.
Zamenhof, S.
Studies on induction of mutations by heat in spores of *Bacillus subtilis*. L. P. Chiasson and S. Zamenhof, 43.
Zygmunt, W. A.
DL-S-Trifluoromethylhomocysteine, a novel inhibitor of microbial growth. W. A. Zygmunt and P. A. Tavormina, 143.
In vitro effect of lysostaphin, neomycin, and bacitracin on *Staphylococcus aureus*. W. A. Zygmunt, H. P. Browder, and P. A. Tavormina, 204.
Growth inhibition of unusual strains of *Staphylococcus aureus* by lysostaphin and other antistaphylococcal antibiotics. W. A. Zygmunt, H. P. Browder, and P. A. Tavormina, 341.